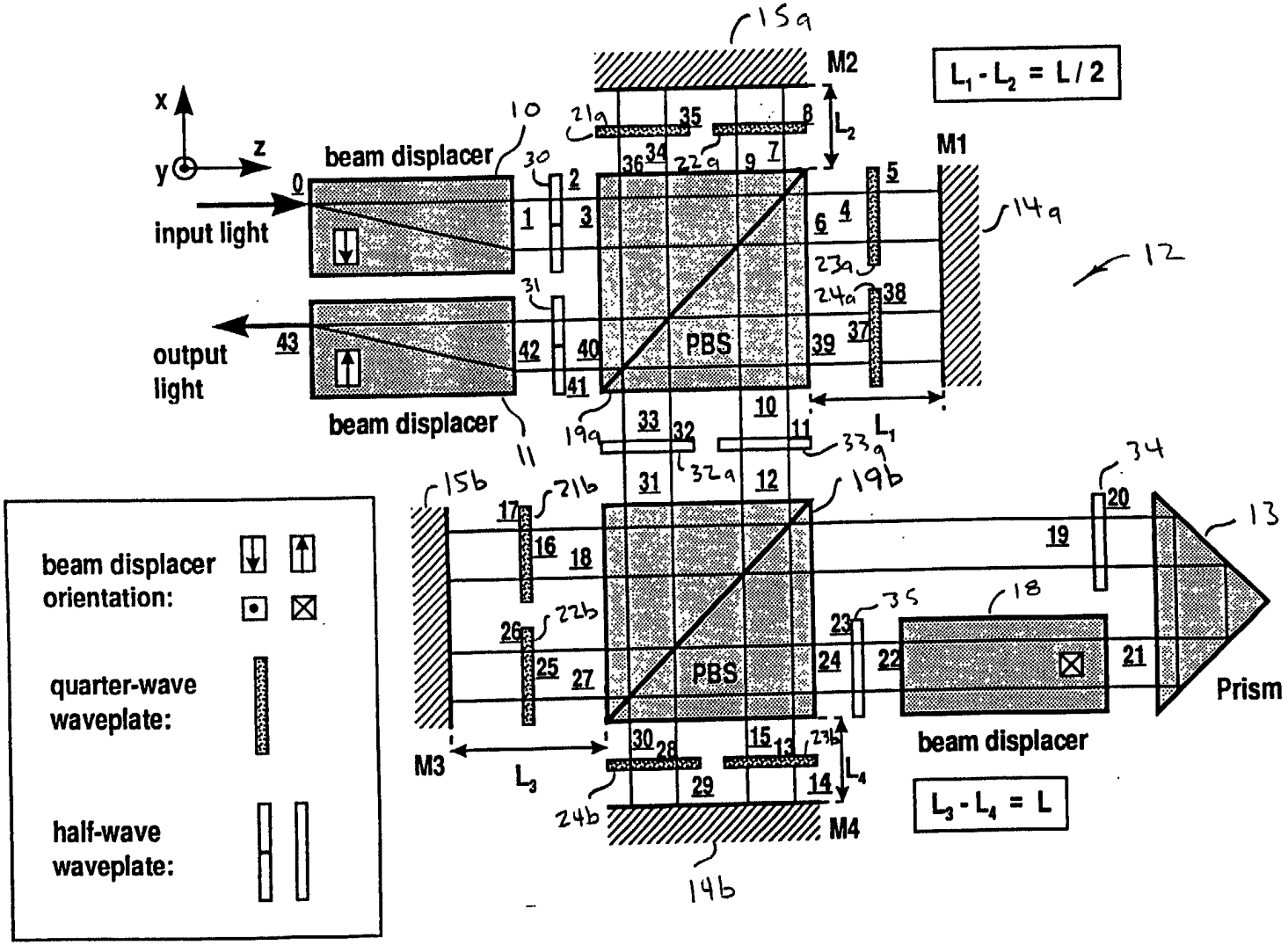

FIG. 1

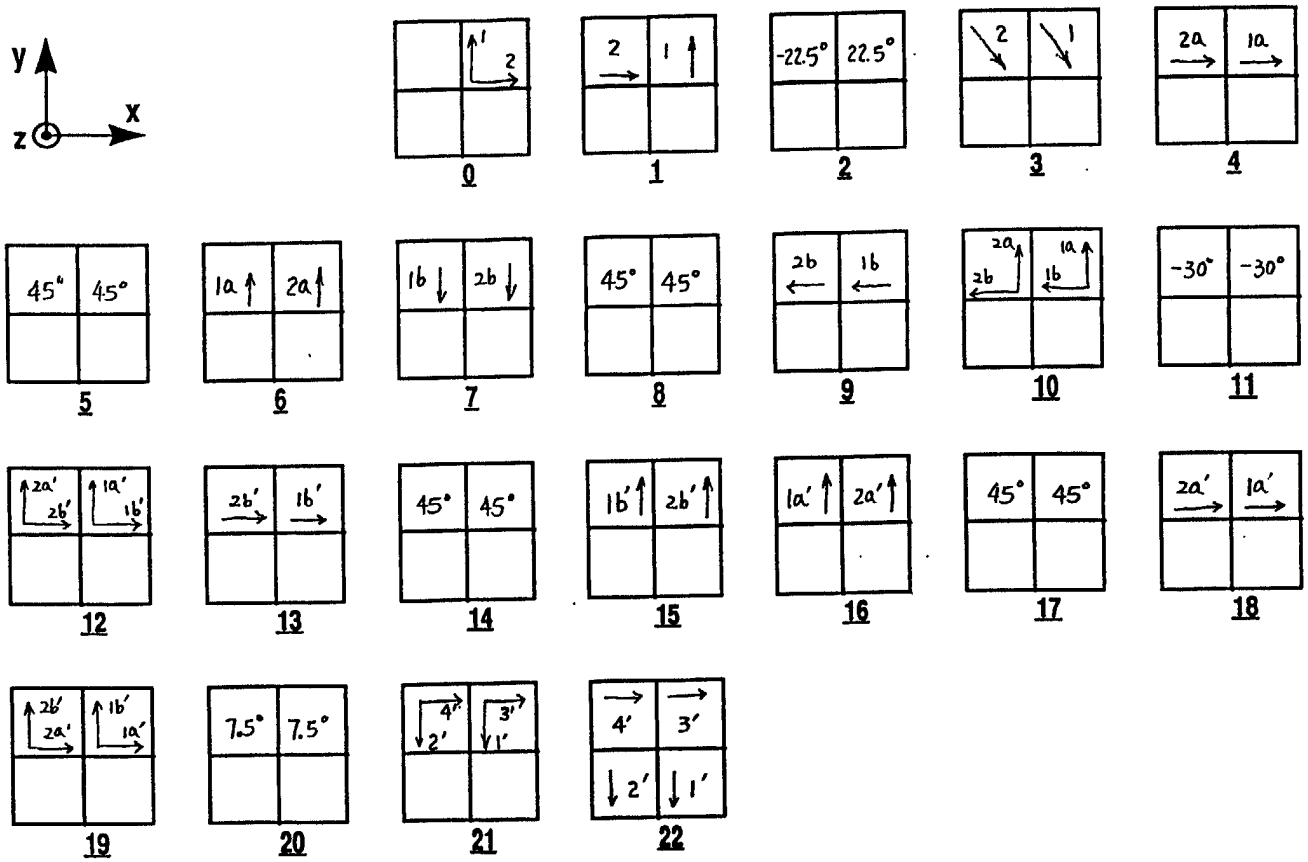

FIG. 2a

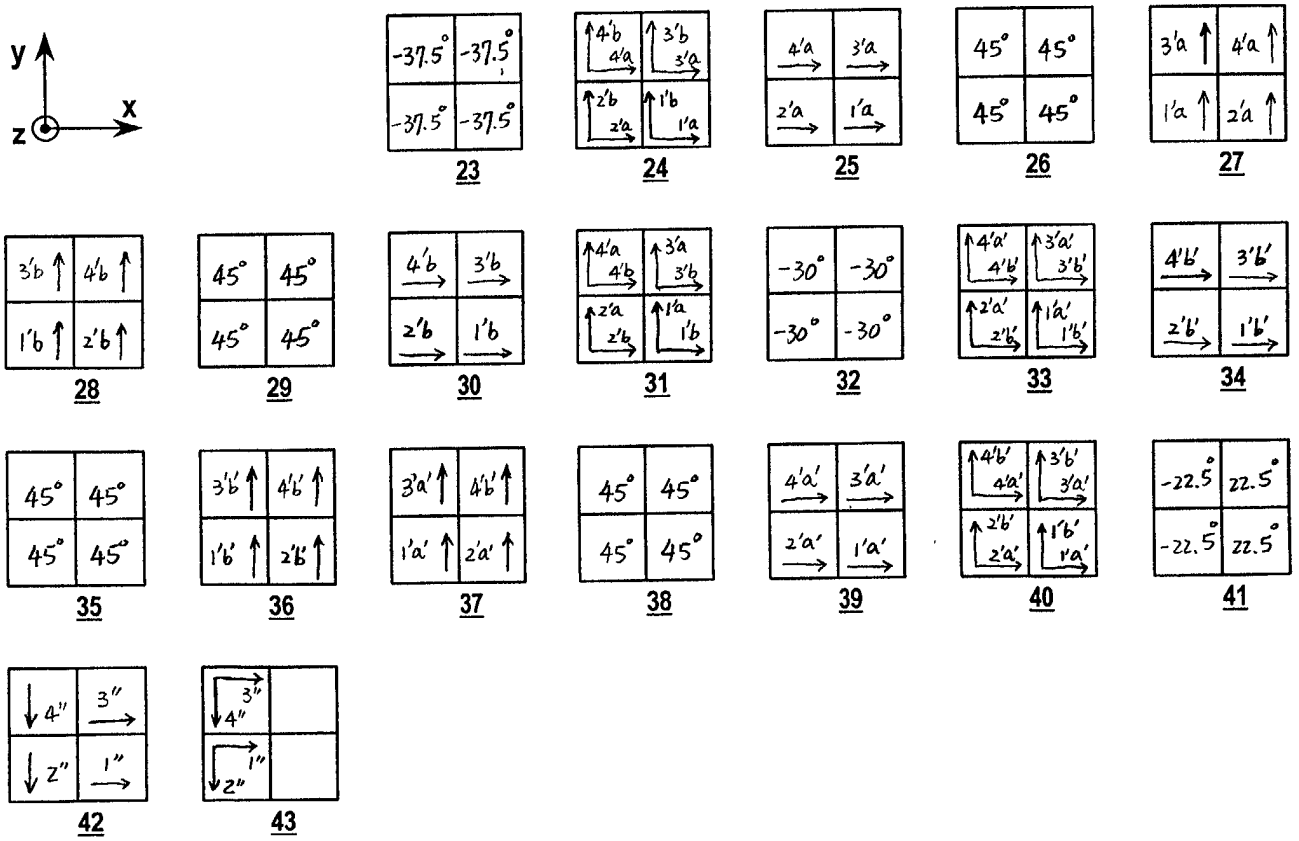
y
x
z
-37.5° -37.5° -37.5° -37.5°
23
4'b 4'a 3'b 3'a 2'b 2'a 1'b 1'a
24
4'a 3'a 2'a 1'a
25
45° 45° 45° 45°
26
3'a 4'a 1'a 2'a
27
3'b 4'b 1'b 2'b
28
45° 45° 45° 45°
29
4'b 3'b 2'b 1'b
30
4'a 3'a 4'b 3'b 2'a 1'a 2'b 1'b
31
-30° -30° -30° -30°
32
4'a' 3'a' 4'b' 3'b' 2'a' 1'a' 2'b' 1'b'
33
4'b' 3'b' 2'b' 1'b'
34
45° 45° 45° 45°
35
3'b' 4'b' 1'b' 2'b'
36
3'a' 4'b' 1'a' 2'a'
37
45° 45° 45° 45°
38
4'a' 3'a' 2'a' 1'a'
39
4'b' 3'b' 4'a' 3'a' 2'b' 1'b' 2'a' 1'a'
40
-22.5° 22.5° -22.5° 22.5°
41
4" 3" 2" 1"
42
3" 4" 1" 2"
43

FIG. 2b

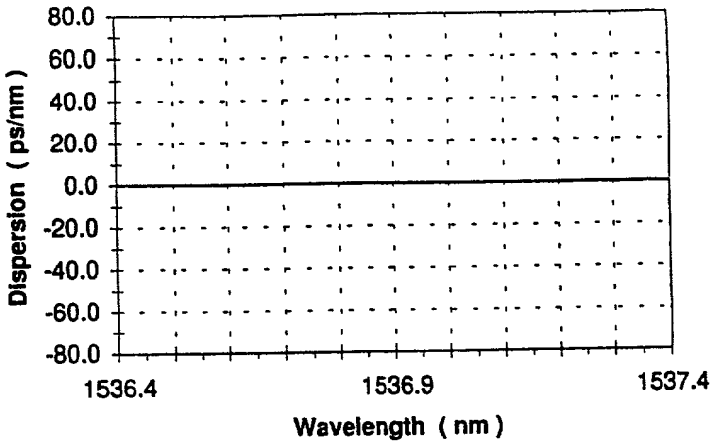

FIG. 3

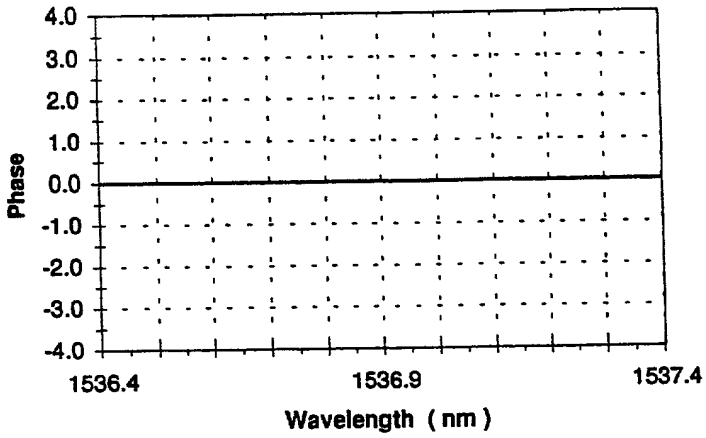

FIG. 4

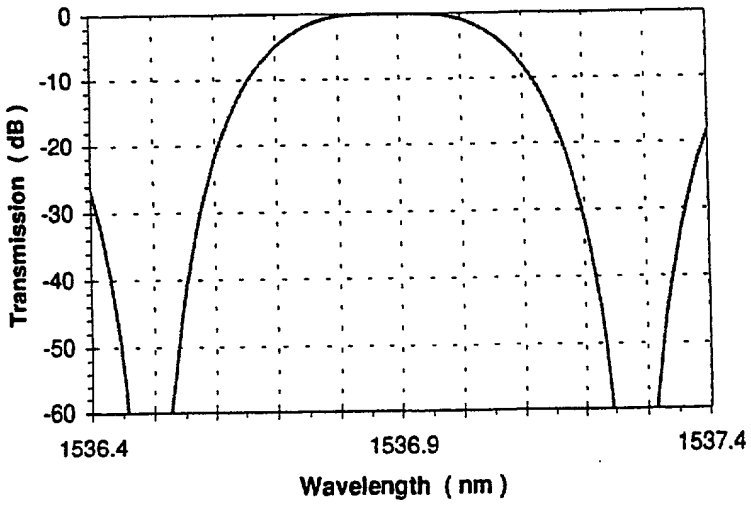

FIG. 5

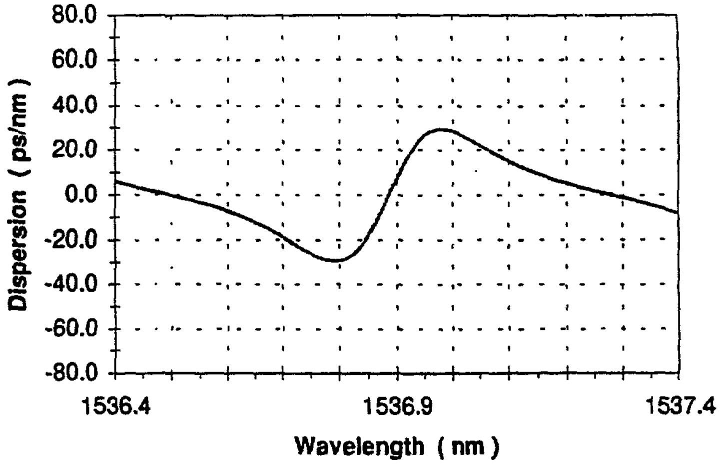

FIG. 6

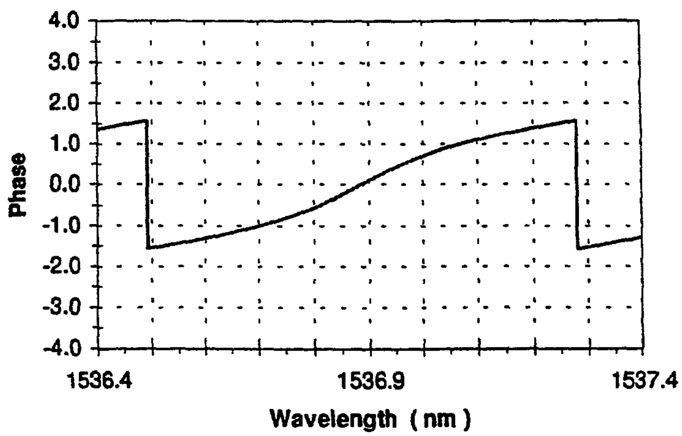

FIG. 7

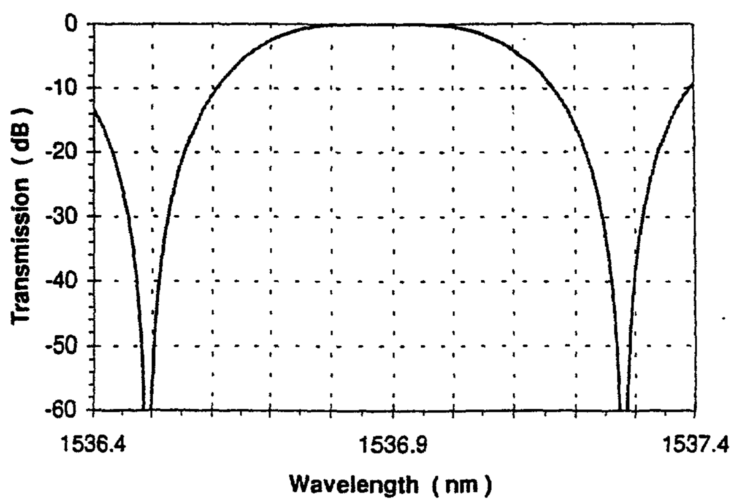

FIG. 8

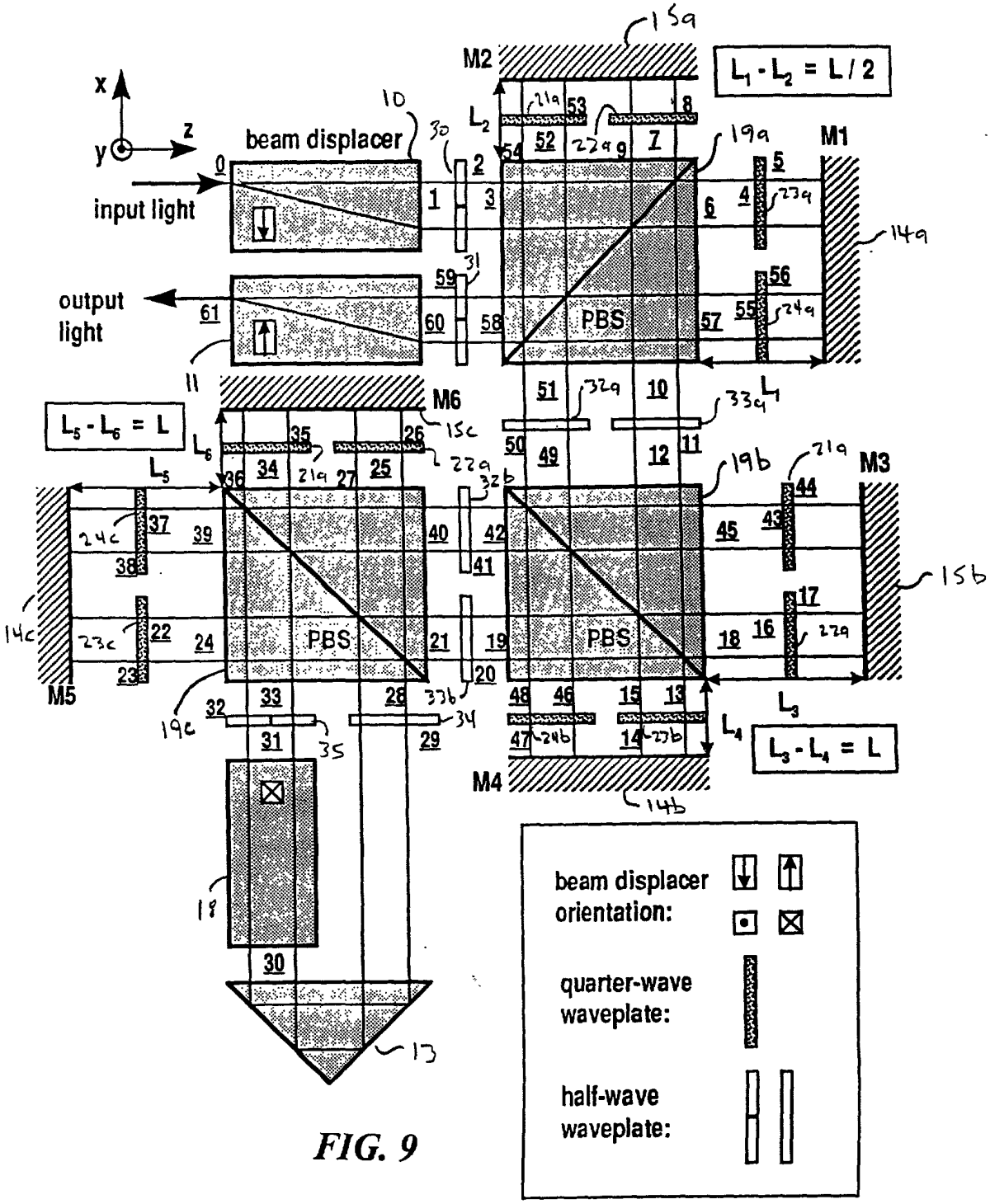
x
y
z
beam displacer
input light
output light
M1
M2
M3
M4
M5
M6
PBS
PBS
PBS
$L_1 - L_2 = L/2$
$L_5 - L_6 = L$
$L_3 - L_4 = L$
beam displacer orientation:
quarter-wave waveplate:
half-wave waveplate:

FIG. 9

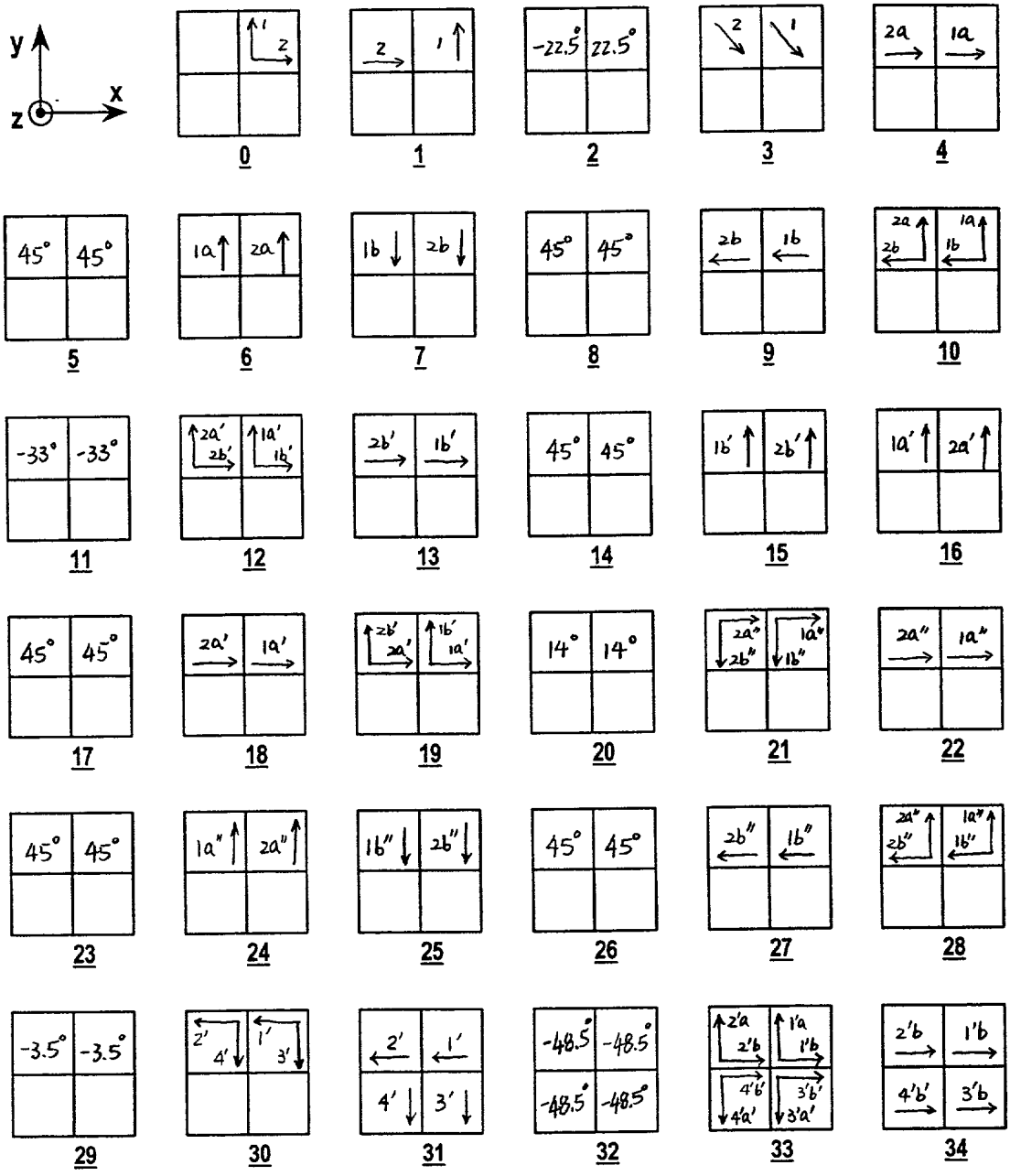
y
x
z
0
1
2
3
4
45° 45°
5
1a 2a
6
1b 2b
7
45° 45°
8
2b 1b
9
2a 1a 2b 1b
10
-33° -33°
11
2a' 2b' 1a' 1b'
12
2b' 1b'
13
45° 45°
14
1b' 2b'
15
1a' 2a'
16
45° 45°
17
2a' 1a'
18
2b' 2a' 1b' 1a'
19
14° 14°
20
2a'' 2b'' 1a'' 1b''
21
2a'' 1a''
22
45° 45°
23
1a'' 2a''
24
1b'' 2b''
25
45° 45°
26
2b'' 1b''
27
2a'' 2b'' 1a'' 1b''
28
-3.5° -3.5°
29
2' 4' 1' 3'
30
2' 1' 4' 3'
31
-48.5° -48.5° -48.5° -48.5°
32
2'a 2'b 1'a 1'b 4'b' 3'b' 4'a' 3'a'
33
2'b 1'b 4'b' 3'b
34

FIG. 10a

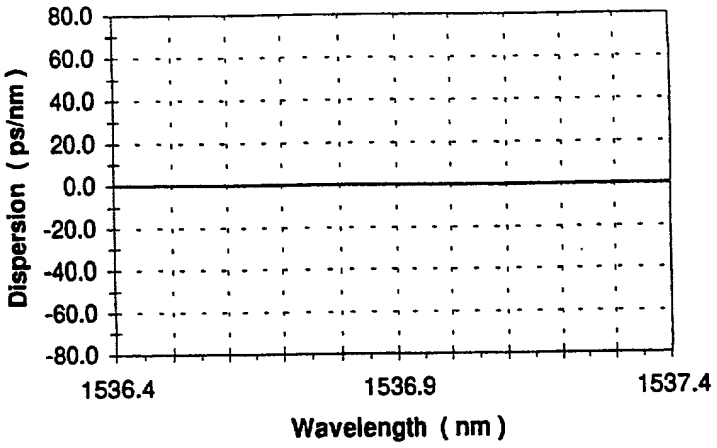

FIG. 11

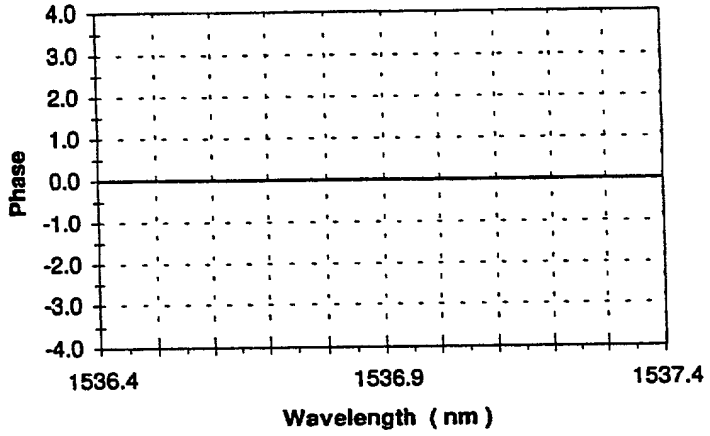

FIG. 12

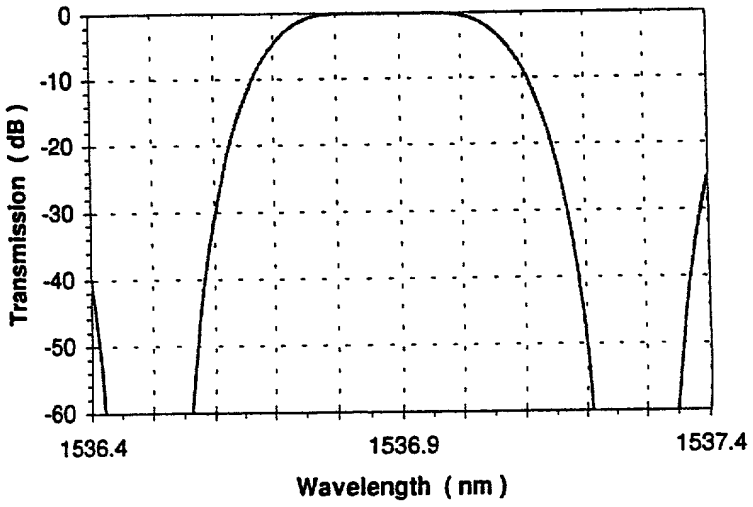

FIG. 13

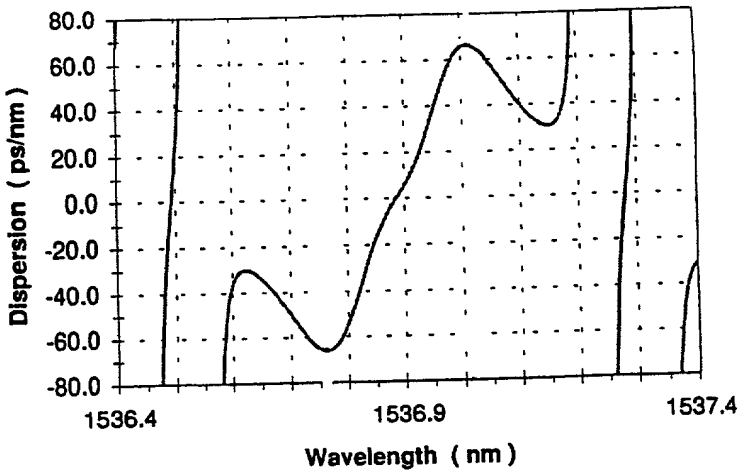

FIG. 14

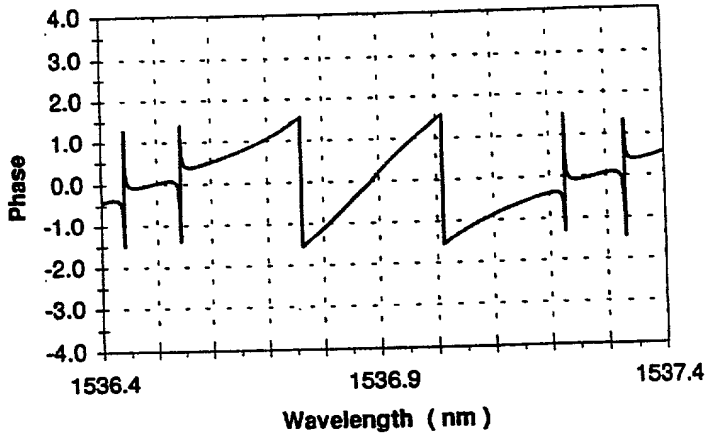

FIG. 15

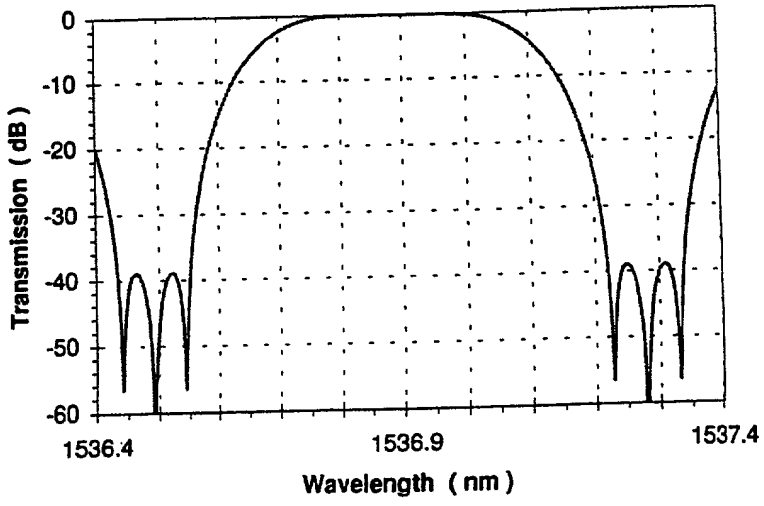

FIG. 16

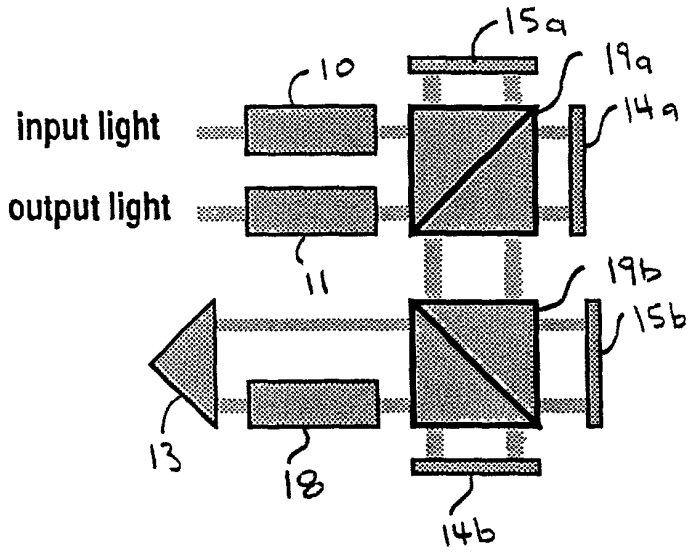
15a
10
19a
input light
14a
output light
11
19b
15b
13
18
14b

FIG. 17

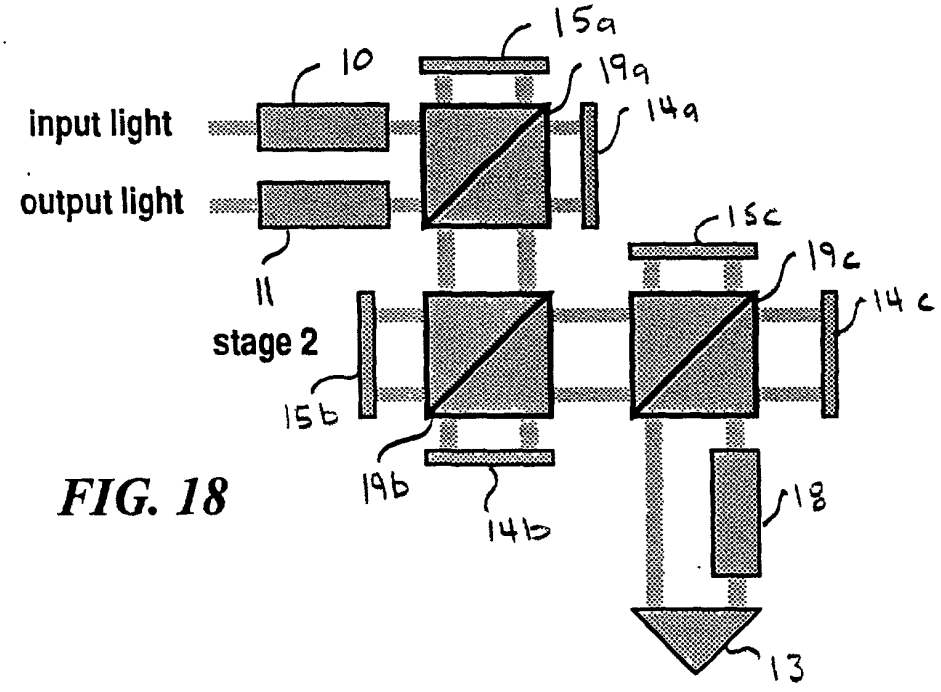
15a
10
19a
input light
14a
output light
11
15c
19c
14c
stage 2
15b
19b
14b
18
13

FIG. 18

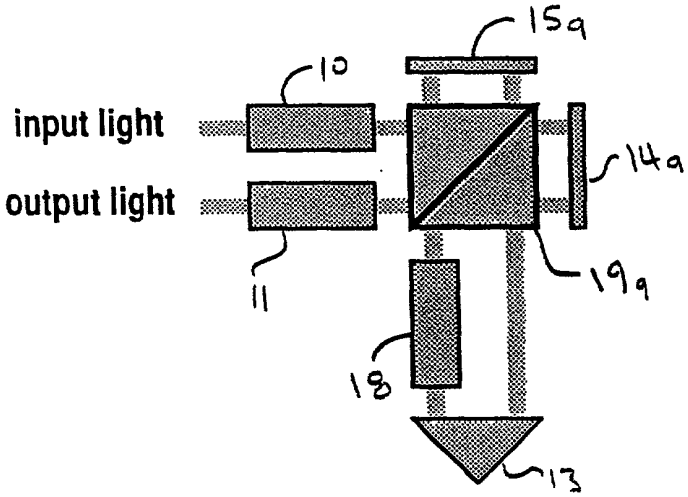

FIG. 19